

SEQUENCE LISTING

<110> De Samblanx, Genoveva
Broekaert, Willem
Rees, Sarah

<120> Antifungal Proteins

<130> SYN-034DV

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<150> 09/077,951

<151> 1998-06-10

<150> GB 9525474.4

<151> 1995-12-13

<150> PCT/GB96/03065

<151> 1996-12-12

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<170> PatentIn Ver. 2.0

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20 25 30

Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Asn Leu Glu Gly Ala Arg
20 25 30

His Gly Ser Cys Asn Tyr Ile Phe Pro Tyr His Arg Cys Ile Cys Tyr
 35 40 45

Phe Pro Cys
 50

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 <213> Brassica rapa

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 20 25

<210> 13
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 <213> Brassica rapa

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 1 5 10 15

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 <213> Brassica napus

<400> 14
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 1 5 10 15

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 <211> 23
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 <213> Brassica napus

<400> 15

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 1 5 10 15

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<213> Sinapis alba

<400> 16

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<210> 17

<211> 26

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<213> Sinapis alba

<400> 17

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<210> 18

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<213> Arabidopsis thaliana

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<213> Raphanus sativus

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 ccaagtggga catggtcagg agtctgtgga aacaataacg catgcaagaa tcagtgcatt 180
 aaccttgaga aagcacgaca tggatcttgc aactatgtct tcccagctca caagtgtatc 240

tgctactttc cttgttaatt tatcgcaaac tctttggtga atagttttta tgtaatttac 300
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<210> 20
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 20 25 30
 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45
 Phe Pro Cys
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<210> 21
 <211> 47
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 <213> Sorghum bicolor

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 Asp Gln Asn Cys Ala Gln Val Cys Leu Gln Glu Gly Trp Gly Gly Gly
 20 25 30
 Asn Cys Asp Gly Val Met Arg Gln Cys Lys Cys Ile Arg Gln Cys
 35 40 45

<210> 22
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 <213> Raphanus sativus

<400> 22
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 1 5 10 15
 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Ala Arg
 20 25 30
 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45
 Phe Pro Cys
 50

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<210> 23
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 20 25 30
 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45
 Phe Pro Cys
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<210> 24
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 1 5 10 15
 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Ala Arg
 20 25 30
 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45
 Phe Pro Cys
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<210> 25
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 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Ala Arg
 20 25 30
 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45
 Phe Pro Cys
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<210> 26
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 <213> Raphanus sativus

<400> 26
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 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Trp Arg
 20 25 30
 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45
 Phe Pro Cys
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<400> 27
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 20 25 30
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 35 40 45
 Phe Pro Cys
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 20 25 30
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 35 40 45
 Phe Pro Cys
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 20 25 30
 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45
 Phe Pro Cys
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 20 25 30
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 35 40 45
 Phe Pro Cys
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 20 25 30
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 35 40 45
 Phe Pro Cys
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 20 25 30
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 35 40 45
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 35 40 45
 Pro Cys
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 20 25 30
 His Gly Ser Cys Asn Tyr Val Pro Ala His Lys Cys Ile Cys Tyr Phe
 35 40 45
 Pro Cys
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 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Ala Arg
 20 25 30
 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45
 Phe Pro Cys
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 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Ala Arg
 20 25 30
 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45
 Phe Pro Cys
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 20 25 30
 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45
 Phe Pro Cys
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 20 25 30
 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45
 Phe Pro Cys
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 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Arg Glu Lys Ala Arg
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 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45
 Phe Pro Cys
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 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Ala Arg
 20 25 30
 His Gly Ser Cys Arg Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45
 Phe Pro Cys
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 20 25 30
 His Gly Ser Cys Asn Tyr Arg Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45
 Phe Pro Cys
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 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Ala Arg
 20 25 30
 His Gly Ser Cys Asn Tyr Val Phe Pro Arg His Lys Cys Ile Cys Tyr
 35 40 45
 Phe Pro Cys
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 <211> 51
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 20 25 30
 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Arg Cys Tyr
 35 40 45
 Phe Pro Cys
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<210> 46
 <211> 51
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 Gln Lys Leu Cys Gln Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
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 Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Ala Arg
 20 25 30
 His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45
 Arg Pro Cys
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 <212> DNA
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 <210> 50
 <211> 21
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 <210> 51
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<400> 57

Gln Lys Leu Cys Glu Arg Pro Ser Arg Thr Trp Ser Gly Val Cys Gly
 1 5 10 15

Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Asn Leu Glu Lys Ala Arg
 20 25 30

His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45

Phe Pro Cys
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<210> 58

<211> 51

<212> PRT

<213> Raphanus sativus

<400> 58

Gln Lys Leu Cys Glu Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Gly
 1 5 10 15

Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Asn Leu Glu Lys Ala Arg
 20 25 30

His Gly Ser Cys Asn Tyr Arg Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45

Phe Pro Cys
 50

<210> 59

<211> 51

<212> PRT

<213> Raphanus sativus

<400> 59

Gln Lys Leu Cys Glu Arg Pro Ser Arg Thr Trp Ser Gly Val Cys Gly
 1 5 10 15

Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Asn Leu Glu Lys Ala Arg
 20 25 30

His Gly Ser Cys Asn Tyr Arg Phe Pro Ala His Lys Cys Ile Cys Tyr
 35 40 45

Phe Pro Cys
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<211> 51

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<210> 66
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<400> 66

Gln Lys Leu Cys Gln Arg Pro Ser Gly Thr Trp Ser Gly Val Cys Met
1 5 10 15

Asn Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Lys Ala Arg
20 25 30

His Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr
35 40 45

Phe Pro Cys
50

<210> 67

<211> 50

<212> PRT

<213> Raphanus sativus

<400> 67

Lys Leu Cys Glu Arg Ser Ser Arg Thr Trp Ser Gly Val Cys Gly Asn
1 5 10 15

Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Gly Ala Gln His
20 25 30

Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr Phe
35 40 45

Pro Cys
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<210> 68

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<212> PRT

<213> Raphanus sativus

<400> 68

Lys Leu Cys Glu Arg Ser Ser Gly Thr Trp Ser Gly Val Cys Gly Asn
1 5 10 15

Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Gly Ala Gln His
20 25 30

Gly Ser Cys Asn Tyr Arg Phe Pro Ala His Lys Cys Ile Cys Tyr Phe
35 40 45

Pro Cys
50

<210> 69

<211> 50

<212> PRT

<213> Raphanus sativus

<400> 69

Lys Leu Cys Glu Arg Ser Ser Arg Thr Trp Ser Gly Val Cys Gly Asn
 1 5 10 15

Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Gly Ala Gln His
 20 25 30

Gly Ser Cys Asn Tyr Arg Phe Pro Ala His Lys Cys Ile Cys Tyr Phe
 35 40 45

Pro Cys
 50

<210> 70

<211> 50

<212> PRT

<213> Raphanus sativus

<400> 70

Lys Leu Cys Met Arg Ser Ser Gly Thr Trp Ser Gly Val Cys Gly Asn
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Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Gly Ala Gln His
 20 25 30

Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr Phe
 35 40 45

Pro Cys
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<210> 71

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<212> PRT

<213> Raphanus sativus

<400> 71

Lys Leu Cys Glu Arg Ser Ser Gly Thr Trp Ser Gly Val Cys Met Asn
 1 5 10 15

Asn Asn Ala Cys Lys Asn Gln Cys Ile Arg Leu Glu Gly Ala Gln His
 20 25 30

Gly Ser Cys Asn Tyr Val Phe Pro Ala His Lys Cys Ile Cys Tyr Phe
 35 40 45

Pro Cys
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<210> 72

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<212> PRT

<213> Raphanus sativus


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<213> Raphanus sativus

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